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Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference									
0000054526	FOR FURTHER AC	CTION	See Form PCT/IPEA/416						
International application No.	International filing dat		Priority date (day/month/year)						
PCT/EP2004/004819	06.05.200	1	16.05.2003						
International Patent Classification (IPC) or national classification and IPC									
Applicant									
BASF AKTIENGESELI	SCHAFT								
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority									
	under Article 35 and transmitted to the applicant according to Article 36.								
2. This REPORT consists of a t	otal of 5	sheets, including	g this cover sheet.						
	ied by ANNEXES, comprising:								
a. (sent to the appli	cant and to the International Bu	reau) a total of 5	sheets, as follows:						
			mended and are the basis for this report and/or						
Instructions		by this Authority (see Ru	le 70.16 and Section 607 of the Administrative						
sheets which	ch supersede earlier sheets, but v	which this Authority con	siders contain an amendment that goes beyond						
the discloss Box.	are in the international applicati	on as filed, as indicated	in item 4 of Box No. I and the Supplemental						
	matical December 1 to 1 4 1 5								
b (sent to the Inter	national Bureau only) a total of (indicate type and numbe	er of electronic carrier(s))						
			_ , containing a sequence listing and/or tables						
	computer readable form only, a: Administrative Instructions).	s indicated in the Supple	emental Box Relating to Sequence Listing (see						
4. This report contains indication	ons relating to the following item	ns;							
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	sis of the report								
Box No. II Pri	ority								
Box No. III No	on-establishment of opinion with	regard to novelty, invent	tive step and industrial applicability						
	ck of unity of invention								
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
Box No. VI Co	rtain documents cited								
Box No. VII Co	Box No. VII Certain defects in the international application								
Box No. VIII Ce	atain observations on the interna	tional application							
Date of submission of the demand		Date of completion of th	nis report						
2 VI SUBMINITED TO THE COMMINI		Date of completion of th	us topott						
Name and mailing address of the IPE	A/EP	Authorized officer							
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I desirible 110.		Telephone No.							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/004819

Box	No. I		Basis of the report		W-V-			
1.			to the language, this report is based on the internation der this item.	nal application in the language in	which it was filed, unless otherwise			
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:							
		\sqcup	international search (Rule 12.3 and 23.1(b))					
		\sqcup	publication of the international application (Rule 12.4)	1				
			international preliminary examination (Rule 55.2 and/	or 55.3)				
2.	recei	iving O report):	to the elements of the international application, this ffice in response to an invitation under Article 14 and ternational application as originally filed/furnished	report is based on (replacement s e referred to in this report as "o	sheets which have been furnished to the riginally filed" and are not annexed to			
	\boxtimes	the de	scription:					
		pages	1,3,4,6,7,9-17		as originally filed/furnished			
		pages	* 2,5,8	received by this Authority on	21.09.2004 by fax			
		pages	*	received by this Authority on				
	\boxtimes	the cl	aims:					
		nos.			as originally filed/furnished			
		nos.*		as amended (togethe	er with any statement) under Article 19			
		nos.*	1-10		•			
		nos.*						
		the dr	rawings:					
		sheet	-		as originally filed/furnished			
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	П	a sec	uence listing and/or any related table(s) - see Supplem		isting			
				ichtal Box Relating to Sequence L	assung.			
3.	ш	The a	amendments have resulted in the cancellation of:					
		\vdash	the description, pages					
		\exists	the claims, nos.	· · · ·	· · · · · · · · · · · · · · · · · · ·			
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١.	_		any table(s) related to sequence listing (specify):					
4.	LJ		report has been established as if (some of) the amend have been considered to go beyond the disclosure as fi	iled, as indicated in the Suppleme				
		\vdash	the description, pages					
		\vdash	the claims, nos.					
			the drawings, sheets/figs					
		님	the sequence listing (specify):					
		Ш	any table(s) related to sequence listing (specify):					
*	If it	em 4 aj	oplies, some or all of those sheets may be marked "sup	perseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/004819

Box	x No. V			ticle 35(2) with regard to novelty, inventive step or industrial applicability; poorting such statement	
1.	Statement				
	Novelty	(N)	Claims	1-10	YES
			Claims		NO
	Inventiv	ve step (IS)	Claims	1-10	YES
			Claims		NO
	Industri	al applicability (IA)	Claims	1-10	YES
			Claims		NO
i					

- 2. Citations and explanations (Rule 70.7)
 - 1. Reference is made to the following documents:
 - D1: WO 02/064657 A (ANTONIETTI MARKUS; MAX PLANCK GESELLSCHAFT (DE); BASF AG (DE); TIARKS)

 22 August 2002 (2002-08-22)
 - D2: US-A-3 639 315 (RODRIGUEZ JAIME) 1 February 1972 (1972-02-01)

2. Novelty

The subject matter of the current application concerns an aqueous primary dispersion containing at least one polyurethane that can be obtained by reacting a polyisocyanate (a) with at least one polyol having the structural unit $-(CH_2CH_2O)_W^-$, w being a whole number from 2 to 200 (b1), optionally a different polyol (b2), optionally a compound having at least two isocyanate-reactive groups selected from thiols and primary and secondary amines (b3), optionally a compound having one isocyanate-reactive group (b4) and optionally an ionic or potentially ionic synthesising component (c), characterised in that

International application No.

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the structural unit $-CH_2CH_2O-$ makes up 10-90 wt.% of the polyol (b1) and at least 3 wt.% of the sum of components (a), (b1), (b2), (b3), (b4) and (c). Component (b1) has a molecular weight of 800-5000 g/mol (see claim 1).

The current application also concerns the corresponding method for producing the primary dispersion (claims 8 and 9) and the use of the primary dispersion (claim 10).

Document D1 discloses an aqueous primary dispersion containing a polyurethane based on dodecanediol ($w \neq 2-200$). The molecular weight of the alkyd resins in document D2 is not indicated, but would nevertheless appear to be more than 5000 g/mol.

The subject matter of claims 1-10 of the current application is thus novel over documents D1 and D2.

3. Inventive step

Document D1 is considered the closest prior art.

The subject matter of the current application differs from that of document D1 in that it uses, instead of a dodecanediol, a polyol with the structural unit $-(CH_2CH_2O)_W$ -, w being a whole number from 2 to 200, and with a molecular weight of 800-5000 g/mol.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The current application addressed the problem of developing an aqueous, fine-particled primary dispersion (see page 2, lines 5-8 of the description).

That problem was solved by the use of a polyol with the structural unit $-(CH_2CH_2O)_W-$, w being a whole number from 2 to 200 and having a molecular weight of 800-5000 g/mol.

This solution is not proposed in document D1 and is also not obvious from a combination of documents D1 and D2, since the molecular weight of the alkyd resin is not indicated and would appear to be more than 5000 g/mol.

The subject matter of claims 1-10 therefore involves an inventive step in relation to documents D1 and D2.